

U.S. PATENT AND TRADEMARK OFFICE
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Docket Number (Optional)

Army

Application Number

09/013,077

Applicant(s)

Nause et al.

Filing Date

1/26/98

Group Art Unit

1627

JUN 28 2008

U.S. PATENT DOCUMENTS

EXAMINER INITIALS	TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
dw	AA	3,540,444	11/17/70	Moreland	128	173	1/15/68
	BB	3,788,315	1/29/74	Laurens	128	173H	4/20/71
	CC	4,166,800	9/4/79	Fong	252	316	7/31/78
	DD	4,384,975	5/24/83	Fong	427	213.36	6/13/80
	EE	4,530,840	7/23/85	Tice et al.	514	179	7/29/82
	FF	4,542,025	9/17/85	Tice et al.	424	78	4/30/84
	GG	4,622,244	11/11/86	Lapka et al.	427	213.32	8/23/84
	HH	4,585,482	4/29/86	Tice et al.	106	15.05	5/25/84
	II	4,637,905	1/20/87	Gardner	264	4.3	4/11/85
	JJ	4,675,189	6/23/87	Kent et al.	424	490	2/8/85
	KK	4,798,786	1/17/89	Tice et al.	435	177	5/6/82

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
dw	ab	0052510B2	10/19/94	EPO	A61K	9/50	✓	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

dw	aa	Gilding, Biodegradable polymers for use in surgery-polyglycolic/poly (acrylic acid) homo- and copolymers: 1, Polymer, vol. 20, Dec. 1979, pp1459-1464
dw	bb	Biotechnology News, August 22, 1997, vol. 17, No. 20, Topical DNA vaccine elicits immune response.

EXAMINER

T. Measly

DATE CONSIDERED

12/29/98

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THW	LL	4,798,786	1/17/89	Tice et al.	435	177	5/6/82
	MM	4,835,139	5/30/89	Tice et al.	514	15	5/19/87
	NN	4,863,735	9/5/89	Kohn et al.	524	422	10/2/86
	OO	4,897,268	1/30/90	Tice et al.	424	422	8/3/87
	PP	4,938,763	7/3/90	Dunn et al.	604	891.1	10/3/88
	QQ	4/941/880	7/17/90	Burns	604	143	12/12/88
	RR	5,000,886	3/19/91	Lawter et al.	264	4.3	5/26/87
	SS	5,019,096	5/28/91	Fox, Jr. et al.	623	1	10/14/88
	TT	5,059,187	10/22/91	Sperry et al.	604	290	5/4/90
	UU	5,064,413	11/12/91	McKinnon et al.	604	70	11/9/89
✓	VV	5,075,109	12/24/91	Tice et al.	424	88	3/18/88

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

THW	cc	Hall, et al., Purification and Analysis of Colonization Factor Antigen I, Coli Surface Antigen 1, and Coli Surface ANtigen 3 Fimbriae from Enterotoxigenic Escherichia Coli, Journal of Bacteriology, Nov. 1989, p6372-6374, vol. 171, No. 11
THW	dd	Evans, et al. Purification and Characterization of the CFR/I Antigen of Enterotoxigenic Escherichia coli, Infection and Immunity, Aug. 1979, p 738-748, vol. 25.

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INFORMATION DISCLOSURE STATEMENT <small>(Use several sheets if necessary)</small> <i>JUN 28 2000</i>				Docket Number (Optional) <i>Army</i>	Application Number <i>09/03,077</i>			
				Applicant(s) <i>Nauss et al.</i>				
				Filing Date <i>1/26/88</i>	Group Art Unit <i>1627</i>			
U.S. PATENT DOCUMENTS								
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>Tlw</i>	VV	5,075,109	12/24/91	Tice, et al.	424	88	3/18/88	
	WW	5,102,872	4/7/92	Singh, et al.	514	21	8/12/88	
	XX	5,129,825	7/14/92	Discko, Jr.	433	90	10/10/89	
	YY	5,133,701	7/28/92	Han	604	289	10/15/90	
	ZZ	5,236,355	8/17/93	Brizzolara et al.	433	80	10/5/90	
	AB	5,278,202	1/11/94	Dunn et al.	523	113	12/23/91	
	AC	5,290,494	3/1/94	Coombes et al.	264	41	7/16/92	
	AD	5,360,610	11/1/94	Tice et al.	424	426	3/15/93	
	AE	5,384,133	1/24/95	Boyes, et al.	424	501	6/29/93	
	AF	5,407,609	4/18/95	Tice et al.	264	46	5/17/93	
<i>V</i>	AG	5,417,986	5/23/95	Reid et al.	424	499	4/10/92	
FOREIGN PATENT DOCUMENTS								
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)								
<i>Tlw</i>	ee	Karjalainen, et al., Molecular Cloning and Nucleotide Sequence of the Colonization Factor Antigen I Gene of Escherichia coli, Infection and Immunity, Apr. 1989, p1126-1130, vol. 57						
<i>Tlw</i>	ff	Jeyanthi, et al., Novel, Burst Free Programmable Biodegradable Microspheres For Controlled Release of Polypeptides, Proceedings Int. Symp. control Release Bioact. Mater. (1996) p351-352/						
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TW	AH	5,500,228	3/19/96	Lawter et al.	424	486	11/26/90
	AI	5,538,739	7/23/96	Bodmer et al.	424	501	1/18/91
	AJ	5,639,480	6/17/97	Bodmer et al.	424	501	6/6/95
	AK	5,643,605	7/1/97	Cleland et al.	424	489	6/2/95
	AL	5,688,530	11/18/97	Bodmer, et al.	424	501	6/6/95
	AM	5,693,343	12/2/97	Reid, et al.	424	491	5/16/94
	AN	5,762,965	6/9/98	Burnett et al.	424	499	2/9/96
	AP	5,811,128	9/22/98	Tice, et al.	424	501	9/7/93
	AQ	5,814,344	9/29/98	Tice, et al.	424	501	6/6/95
	AR	5,820,883	10/13/98	Tice, et al.	424	501	6/6/95
✓	AS	5/853,763	12/29/98	Tice, et al.	424	489	6/6/95

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

John	gg	Yeh, A novel emulsification-solvent extraction technique for production of protein loaded biodegradable microparticles for vaccine and drug delivery, Journal of Controlled Release, 33 (1005) 437-445.
John	hh	Yan, Characterization and morphological analysis of protein-loaded poly(lactide-co-glycolide) microparticles prepared by watewr-in-oil-in-water emulsion technique, Journal of Controlled Release, 32 (1994) 231-241.

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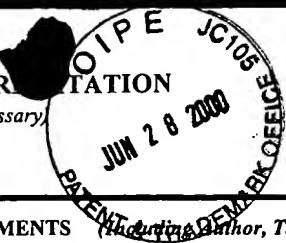
DATE CONSIDERED

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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				Docket Number (Optional) <i>Army</i>	Application Number <i>09/013,077</i>		
				Applicant(s) <i>Nau et. al.</i>			
				Filing Date <i>1/26/98</i>	Group Art Unit <i>1627</i>		
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>tdw</i>	AA	5,429,822	7/4/95	Gresser et al.	424	426	3/13/92
<i>p</i>	BB	5,648,096	7/15/97	Gander et al.	424	489	6/22/94
<i>:</i>	CC	5,650,173	7/22/97	Ramstack et al.	424	489	10/3/96
<i>↓</i>	DD	3,773,919	11/20/73	<i>Boswell</i>	424	19	10/8/70
FOREIGN PATENT DOCUMENTS							
REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
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Army 10

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Group Art Unit

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gg	Wang, et al., Influence of formulation methods on the in vitro controlled release of protein from poly (ester) microspheres Journal of Controlled Release, 17 (1991) 23-32.
hh	Brown, Wonder Drugs' Losing Healing Aura, The Washington Post, June 26, 1995, A section.
ii	Setterstrom, Controlled Release of Antibiotics From biodegradable Microcapsules For Wound infection Control, Chemical Abstracts, 1983, pp215-226.
jj	Perez-Casal, et al., Gene Encoding the Major Subunit of CS1 Pili of Human Enterotoxigenic Escherichia Coli, Infection and Immunity, Nov., 1990, p 3594-3600, vol. 58, No. 11.
kk	Jordi, et al., Analysis of the first two genes of the CS1 fimbrial operon in human enterotoxigenic Escherichia coli of serotype 0139: H28, FEMS Microbiology Letters 80, (1991) p265-270.
ll	Tan, et al., Mapping the Antigenic Epitopes of Human Dihydrofolate Reductase by Systematic Synthesis of Peptides on solid Supports, The Journal of Biological Chemistry, vol. 265, No. 14, Issue of May 15, pp. 8022-8026 (1990)
mm	McConnel, et al., Antigenic homology within human enterotoxigenic Escherichia coli fimbrial colonization factor antigens: CFA/I, coli-surface-associated antigens (CS)1, CS2, CS4 and CS17, FEMS Microbiology Letters 61 (1989) 105-108.
nn	Van der Zee, Efficient mapping and characterization of a T cell epitope by the simultaneous synthesis of multiple peptides, Eur. J. Immunol. 1989, 19: 43-47.
oo	Cassels, et al., Analysis of Escherichia coli Colonization Factor Antigen I Linear B-Cell Epitopes, as Determined by Primate Responses, following Protein Sequence Verification, Infection and Immunity, June 1992, p. 2174-2181, vol. 60, no. 6.
pp	Romagnoli, et al. Peptide-MHC Interaction: A Rational Approach to Vaccine Design, Inter, RE. Immunol. 6, 1990, 00 61-73.
qq	Maister, First Oral AIDS Vaccine Trials Near, BioWorld Today, Tuesday, April 19, 1994, p.4.
rr	Rognan, et al., Molecular Modeling of an Antigenic Complex Between a Viral Peptide and a Class I Major Histocompatibility Glycoprotein, Proteins Structure, Function and Genetics 13 70-85 (1992).

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*EXAMINER INITIAL <i>thw</i>	OTHER DOCUMENTS <i>Brown, A hypothetical model of the foreign antigen binding site of Class II histocompatibility molecules, Nature, vol. 332, 28 April 1988, p845-850.</i> ss	PRIORITY & TRADEMARK INFORMATION	
EXAMINER <i>T. Weisner</i>	DATE CONSIDERED 12/9/00		

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